

Table 8-9**Mathematics and statistics research doctorate recipients, statistical profiles by sex and major field of doctorate: 2022**

(Number, percent, and median years)

Characteristic	All mathematics and statistics fields	Applied mathematics	Mathematics	Statistics
All doctorate recipients (number) ^a	2,144	477	980	687
Sex (%)				
Male	71.0	70.4	76.8	63.2
Female	29.0	29.6	23.2	36.8
Unknown	0.0	0.0	0.0	0.0
Citizenship status (%)				
U.S. citizen or permanent resident	45.1	44.0	56.4	29.5
Temporary visa holder	50.7	52.8	39.8	64.9
Unknown	4.2	3.1	3.8	5.5
Marital status (%)				
Never married	50.2	48.0	52.6	48.3
Married	28.5	34.2	24.0	30.9
Marriage-like relationship	8.8	8.4	8.7	9.3
Separated, divorced, widowed	1.2	1.3	1.4	0.9
Unknown	11.3	8.2	13.4	10.6
Has dependent age 18 or younger (%)	12.6	14.7	9.0	16.2
Has one or more functional limitations (%)	11.2	9.7	11.7	11.6
Age at doctorate (median years)	29.4	29.9	29.1	29.5
Bachelor's in same field as doctorate (%) ^b	82.6	80.1	88.3	76.5
Master's earned (%)	70.8	73.1	65.7	76.3
Master's earned at same doctorate institution (%)	52.2	53.9	52.5	50.7
Time to doctorate (median years)				
Years since earning bachelor's degree	7.0	7.3	6.8	7.2
From graduate school start	6.0	6.3	6.0	6.3
From doctoral program start ^c	5.3	5.3	5.8	5.0
Received tuition remission (%)	94.2	93.4	94.9	93.8
Male doctorate recipients (number)	1,523	336	753	434
Citizenship status (%)				
U.S. citizen or permanent resident	46.6	44.3	56.4	31.1
Temporary visa holder	49.4	53.6	39.6	63.4
Unknown	4.0	2.1	4.0	5.5
Marital status (%)				
Never married	52.0	49.1	54.6	49.8
Married	27.3	34.2	22.4	30.4
Marriage-like relationship	8.5	8.3	D	D
Separated, divorced, widowed	1.1	1.8	D	D
Unknown	11.1	6.5	14.1	9.4
Has dependent age 18 or younger (%)	12.9	15.8	8.7	17.7
Has one or more functional limitations (%)	10.5	9.9	10.1	11.8
Age at doctorate (median years)	29.4	30.2	29.1	29.5
Bachelor's in same field as doctorate (%) ^b	83.1	79.1	88.7	77.1
Master's earned (%)	69.2	72.9	63.7	75.3
Master's earned at same doctorate institution (%)	51.7	54.0	52.5	48.7
Time to doctorate (median years)				
Years since earning bachelor's degree	7.0	7.5	6.6	7.1
From graduate school start	6.0	6.3	5.9	6.3
From doctoral program start ^c	5.3	5.3	5.8	5.0
Received tuition remission (%)	94.5	93.8	95.6	93.2
Female doctorate recipients (number)	621	141	227	253
Citizenship status (%)				

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(Number, percent, and median years)

Characteristic	All mathematics and statistics fields	Applied mathematics	Mathematics	Statistics
U.S. citizen or permanent resident	41.4	43.3	56.4	26.9
Temporary visa holder	53.9	51.1	40.5	67.6
Unknown	4.7	5.7	3.1	5.5
Marital status (%)				
Never married	45.7	45.4	45.8	45.8
Married	31.2	34.0	29.1	31.6
Marriage-like relationship	9.5	8.5	D	D
Separated, divorced, widowed	1.6	0.0	D	D
Unknown	11.9	12.1	11.0	12.6
Has dependent age 18 or younger (%)	11.9	12.2	9.9	13.6
Has one or more functional limitations (%)	12.8	9.0	16.8	11.3
Age at doctorate (median years)	29.5	29.4	29.3	29.6
Bachelor's in same field as doctorate (%) ^b	81.3	82.6	87.0	75.4
Master's earned (%)	74.8	73.5	72.1	78.0
Master's earned at same doctorate institution (%)	53.6	53.6	52.7	54.2
Time to doctorate (median years)				
Years since earning bachelor's degree	7.1	7.0	7.0	7.4
From graduate school start	6.3	6.0	6.0	6.7
From doctoral program start ^c	5.3	5.3	5.7	5.0
Received tuition remission (%)	93.4	92.4	92.6	94.7

D = suppressed to avoid disclosure of confidential information.

^a Includes doctorate recipients who did not report sex.^b A bachelor's and doctoral degree are considered to be in the same field if doctorate recipient's first or most recent bachelor's degree is in the same broad field as their doctoral degree.^c Time to doctorate from doctoral program start is based on master's degree entry if the master's degree was at the same doctoral institution in the same field of study or was a prerequisite to the doctorate; otherwise, it is based on doctoral program entry.**Note(s):**

Due to rounding, percentages may not sum to 100. Beginning in 2021, a modified version of the 2020 Classification of Instructional Programs (CIP) codes was used in the survey data collection, and new broad, major, and detailed fields are used in tables reporting data from 2021 to the present; see the field list in table A-4. Therefore, the field of doctorate data prior to 2021 may not be comparable to subsequent years. For more information, see the "Technical Notes" and the SED 2021 Taxonomy Changes Working Paper (available at <https://nces.nsf.gov/pubs/nces23200>).

Source(s):

National Center for Science and Engineering Statistics, Survey of Earned Doctorates.